

In the Specification

Please amend paragraph 0005 as follows:

[0005] The automatic vehicle waxing system and process of the present invention may be incorporated into existing automatic vehicle wash and wax operations. ~~The advantage~~ One approach of the automatic waxing system of the invention is to provide apparatus and process steps to enhance the effectiveness of the washing and waxing process as well as in the protective coating application on the vehicle surface by utilizing a waterfall dump which includes a carnauba wax emulsion.

Please amend paragraph 0006 as follows:

[0006] ~~The Various example embodiments of the~~ present invention ~~relates~~ relate to an automatic vehicle wash and wax system and process. The automatic system, subsequent the washing of a vehicle has a spray apparatus which sprays a liquid coating, such as a surface reactive silicone, onto the surface of the vehicle. Adjacent and following the coating spray apparatus, a water sheet application assembly is positioned above the vehicle path and which is constructed and arranged to apply a continuous sheet of a heated liquid waterfall dump onto the vehicle to thereby evenly mix with and disperse the coating composition over the vehicle surface. ~~Preferably~~ In some applications, the heated waterfall sheet contains a carnauba wax emulsion and may further contain an opaque dye and/or other chemical agents.

Please amend paragraphs 0009 – 0014 as follows:

[0009] ~~The~~ In some example embodiments, the water sheet or waterfall dump application assembly includes a tank structure connected to a heated water or fluid supply. A weir structure is attached to the tank structure for cooperation therewith. The tank structure has a slotted, fluid dispensing pipe and which communicates with the fluid supply. The weir structure is attached at a predetermined angle with respect to the tank. The tank/weir combination forms and directs a specified volume of a continuous cascading sheet of heated water or other liquid over the vehicle surface. The weir structure is preferably positioned at an angle of 15-20 degrees with respect to the front of the tank structure. The heated water which is dispensed over the weir structure is preferably in a range of

approximately 100-150.degree. F. (38-66.degree. C.). The volume of water spread onto a vehicle via the waterfall dump apparatus preferably ranges from 5-15 gallons (18.9-56.8 liters) per application.

[0010] The waterfall dump apparatus of the invention may also be utilized as a rinse application. For example, the waterfall sheet may be applied over a detergent or soap formulation previously sprayed or otherwise applied to the vehicle surface. Preferably In some instances, the waterfall dump in this application utilizes cold water.

[0011] ~~An object~~ One or more aspects of the present invention ~~is to provide~~ are directed to an improved coating application apparatus and process for use in an automatic vehicle wash and wax operation.

[0012] ~~Another advantage of~~ Another aspect of the present ~~apparatus and process is~~ providing invention involves applying a heated liquid waterfall dump onto a vehicle surface to yield an improved protective coating application on the vehicle surface.

[0013] Yet another ~~advantage~~ of the invention is directed to ~~provide~~ a waterfall dump apparatus that may be adapted for use in both the wash and wax operations of an automatic car wash system.

[0014] These and other ~~benefits~~ aspects of this invention will become clear from the following description by reference to the drawings.

Please amend paragraph 0015 as follows:

[0015] FIG. 1 is a lateral plan view showing ~~the a~~ vehicle wash and wax system, according to an example embodiment of the present invention;

Please amend paragraph 0017 as follows:

[0017] FIG. 3 is a schematic showing ~~the a~~ waterfall dump station used in ~~the a~~ vehicle wash and wax system, according to another example embodiment of the invention;

Please amend paragraph 0019 as follows:

[0019] FIG. 5 is a frontal view of the tank structure, according to another example embodiment of the invention;

Please amend paragraphs 0022-0023 and the heading preceding paragraph 0022 as follows:

DESCRIPTION OF ~~THE PREFERRED~~ EXAMPLE EMBODIMENTS

[0022] Referring to FIGS. 1-7, various example embodiments of the present invention ~~relates~~ relate to an automatic vehicle wash and wax system and process. The automatic system, subsequent the washing of a vehicle has a spray apparatus which sprays a liquid wax or coating onto the surface of the vehicle. ~~Preferably~~ In some embodiments, the liquid coating sprayed on the vehicle is a heated surface reactive silicone formulation. Adjacent or following the spray coating apparatus, a water sheet application assembly is positioned above the vehicle path and which is constructed and arranged to apply a continuous sheet of a heated liquid waterfall dump onto the vehicle to thereby evenly mix with and disperse the coating composition over the vehicle surface. The waterfall dump apparatus may also be utilized as a rinse application subsequent a soap or detergent application in the wash cycle.

[0023] ~~Preferably~~ In some embodiments, the waterfall sheet contains a carnauba wax emulsion and may further contain an opaque dye, and which may be colored, i.e., green or other color. The water or fluid sheet or waterfall application assembly includes a tank structure connected to a heated water supply. Cold water is preferred when the waterfall is used subsequent a wash cycle. A weir structure is attached to the tank structure having a fluid dispensing pipe therein. The weir structure is attached at a predetermined angle with respect to the tank. The tank/weir combination forms and directs a specified volume of a continuous cascading sheet of heated water or other liquid over the coated vehicle surface. ~~The~~ In some applications, the weir structure is ~~preferably~~ positioned at an angle

of 15-20 degrees with respect to the front of the tank structure. ~~The~~ In some implementations, the heated water which is dispensed over the weir structure is ~~preferably~~ in a range of approximately 100-150.degree. F. (38-66.degree. C.), so that the carnauba wax emulsion is applied in this temperature range. The volume of water spread onto a vehicle via the waterfall or fluid fall dump ~~preferably~~ ranges from 5-15 gallons (18.9-56.8 liters) per application for some implementations, and which may involve a 20-35 second waterfall application.